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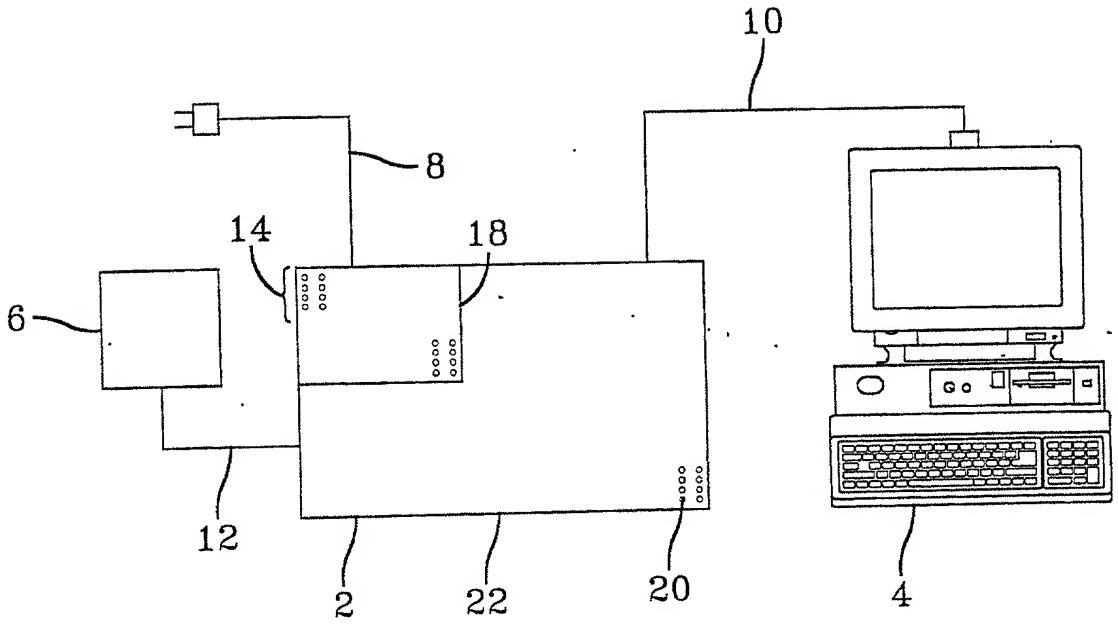
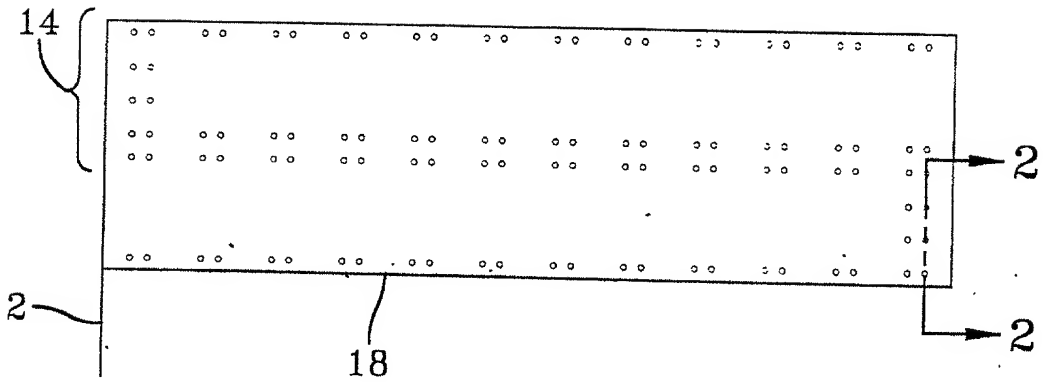


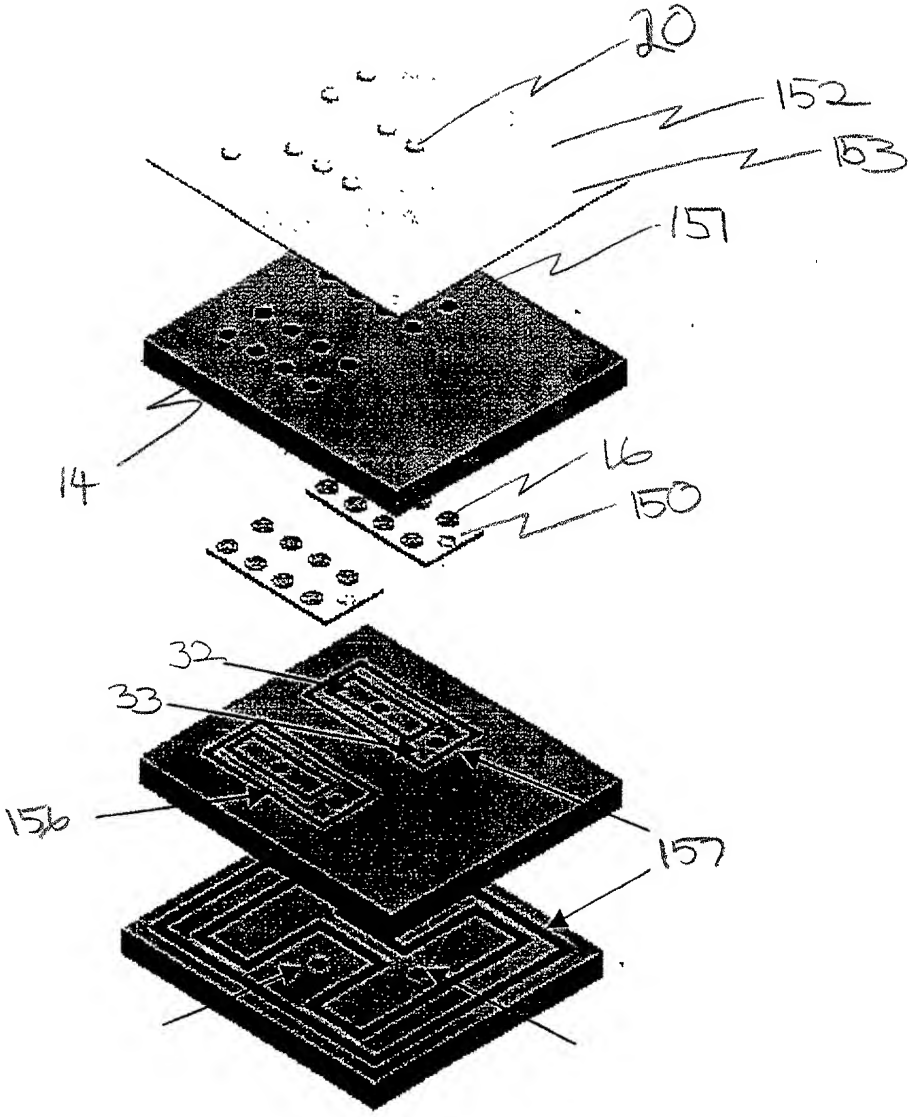
FIG–1

20050908150501

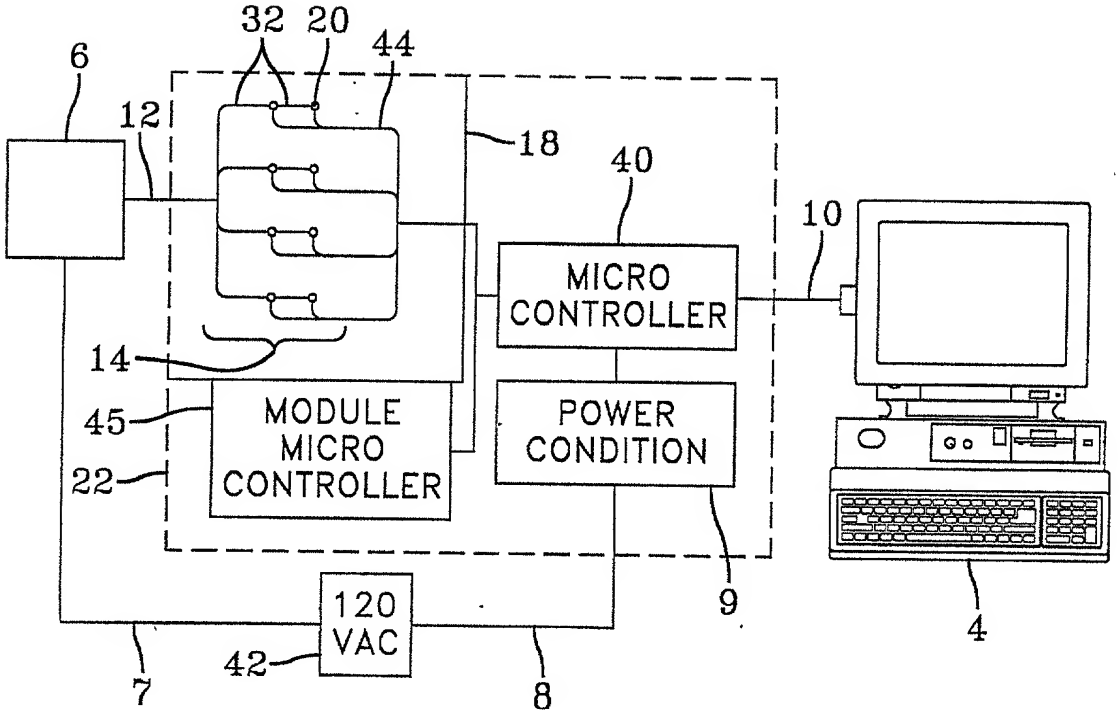


FIG–2

20050050 v1 - 6 of 15 - 10/005,001



FIG–3


32
20
44
6
12
18
40
10
MICRO
CONTROLLER
14
45
MODULE
MICRO
CONTROLLER
POWER
CONDITION
22
9
4
120
VAC
42
7
8

FIG–4

t_1	t_2	t_3	t_4
0	1	1	1
1	0	1	1
1	1	0	1
1	1	1	0

	COL 1	COL 2	COL 3	COL 4	COL 5
ROW 1	X				X
ROW 2		X		X	
ROW 3		X			X
ROW 4	X			X	

X BRAIL DOT EXTENDED

0 OPEN ELECTRODE VOLTAGE

1 CLOSED ELECTRODE VOLTAGE

t_1	0	1	1	1	0
t_2	1	0	1	0	1
t_3	1	0	1	1	0
t_4	0	1	1	0	1

FIG -5

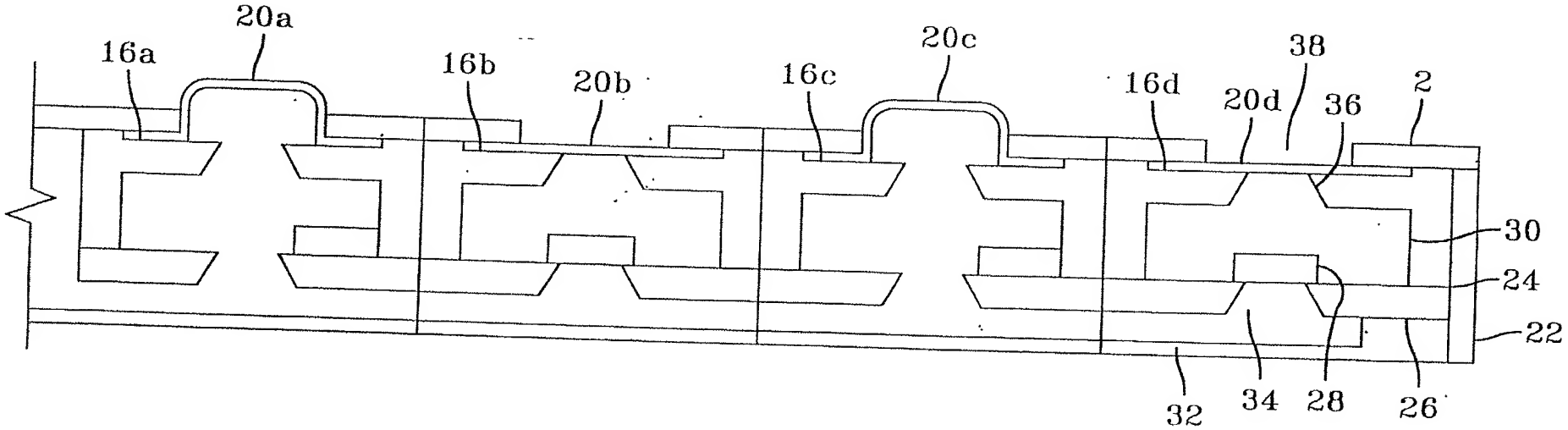
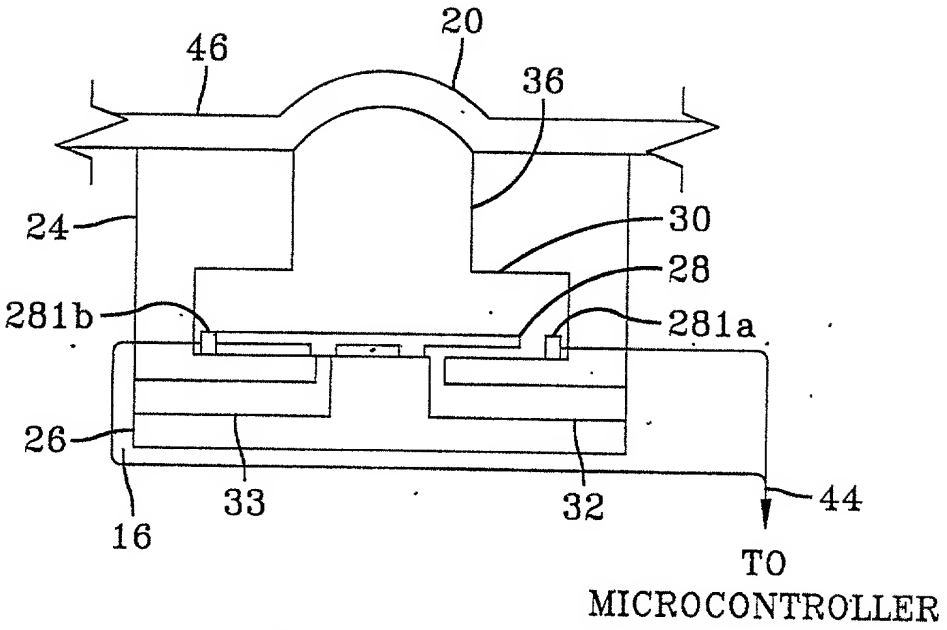
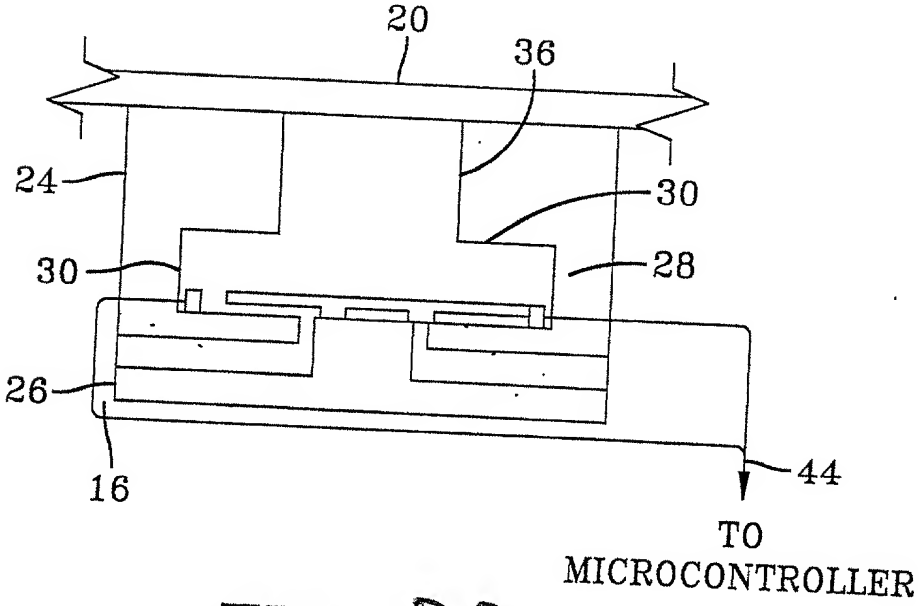


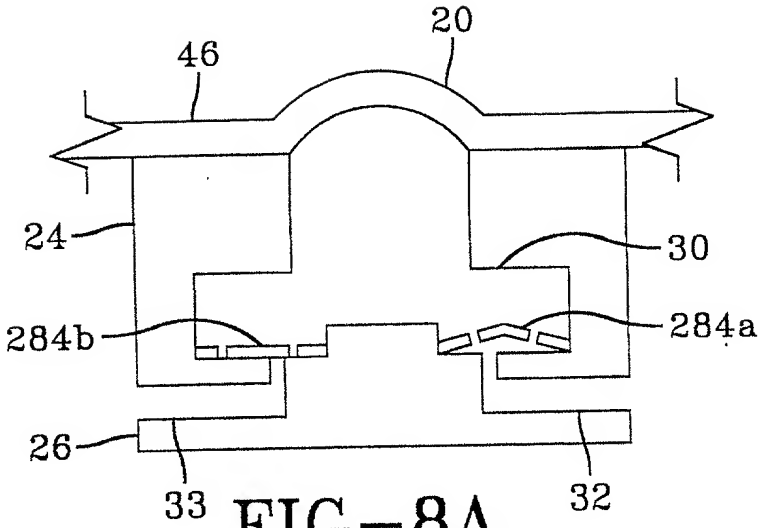
FIG-6


46
20
36
24
30
28
281b
281a
26
33
32
44
16
TO
MICROCONTROLLER

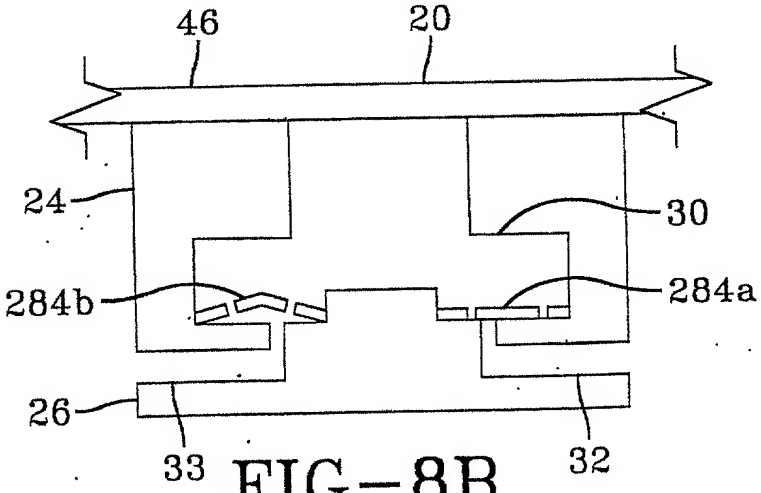
FIG– 7A


20
36
24
30
30
28
26
16
44
TO
MICROCONTROLLER

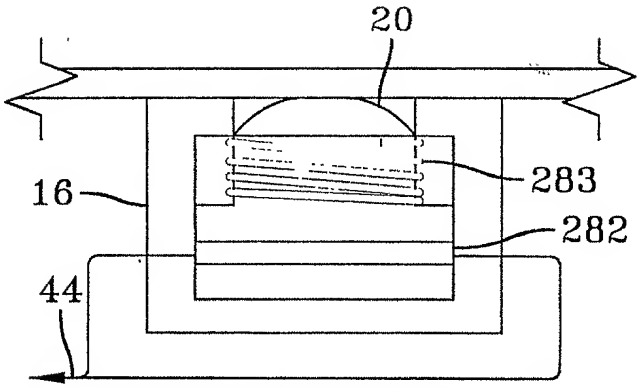
FIG– 7B



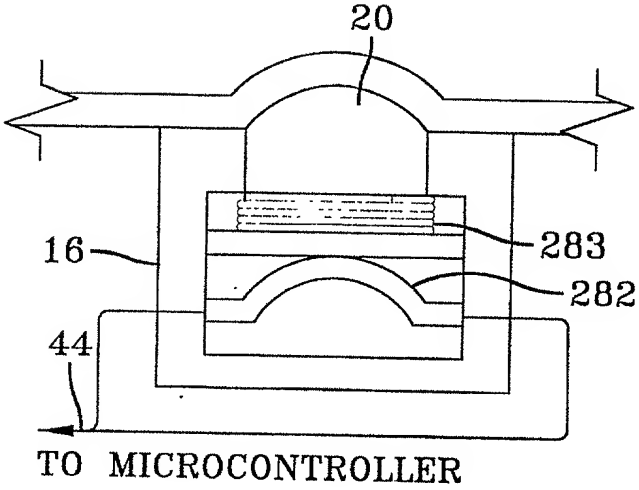
FIG–8A



FIG–8B


20
283
16
282
44
TO MICROCONTROLLER

FIG–9A


20
283
16
282
44
TO MICROCONTROLLER

FIG–9B

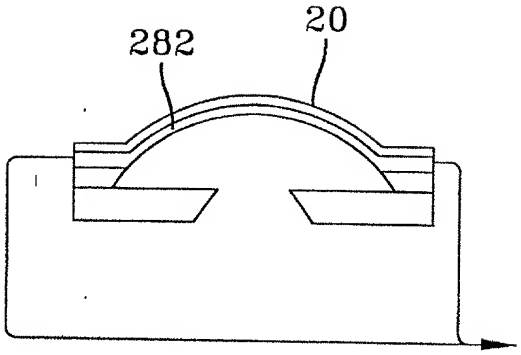


FIG-10A

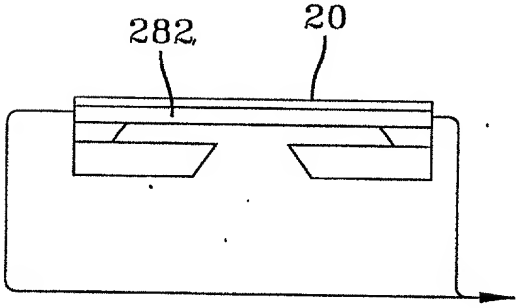


FIG-10B

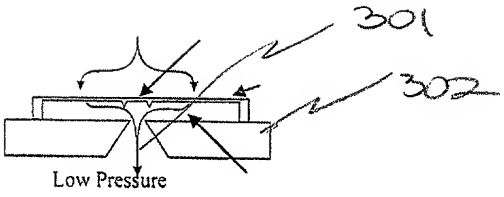


FIG -11A

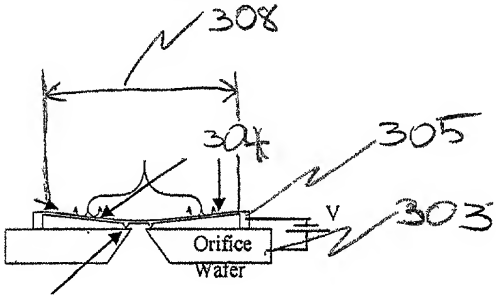


FIG-11B

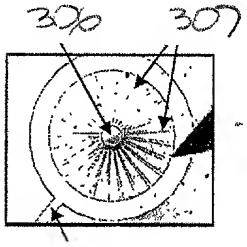


FIG -11C

FIG - 12

Document ID: US 6,396,369 B1